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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 08/25/2008

Robert E Krebs Thelen Reid & Priest P O Box 640640 San Jose, CA 95164-0640 EXAMINER
GATES, ERIC ANDREW

PAPER NUMBER

ART UNIT 3726 DATE MAILED: 08/25/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNITY DOCKET NO.
 CONFIRMATION NO.

 10/528,481
 10/17/2005
 Xingda Tan
 0.34514-010
 8324

TITLE OF INVENTION: POWER DRILL CHUCK

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 11/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THE APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	ed below or directed oth	or tran	nsmitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification i) specifying a new of	of n	ON FEE (if requi- naintenance fees w pondence address;	red). I rill be and/o	Blocks 1 through 5 st mailed to the current r (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	any change of address)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.							
Robert E Krebs Thelen Reid & F P O Box 640640		Certificate of Mailing or Transmission Thereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE; address above, or being facsimile transmitted to the USPTO (571) 272-2885, on the date indicated below.							
San Jose, CA 95	164-0640								(Depositor's name)
					L				(Signature)
					L				(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVEN			TOR A		RNEY DOCKET NO.	CONFIRMATION NO.
10/528,481 TITLE OF INVENTION	10/17/2005 POWER DRILL CHU	СК		Xingda Tan				034514-010	8324
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	UE.	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	11/25/2008
EXAMINER			ART UNIT	CLASS-SUBCLASS	s				
GATES, ERI	C ANDREW		3726	279-062000					
Address form PTO/SE "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	nge of " Indic ed. Us	Correspondence ation form e of a Customer		ingle or a attoril be or typ	3 registered paten rely, e firm (having as a sgent) and the name meys or agents. If op- printed. te) at the control of the c	memb es of u no nan	per a 2p to ne is 3	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):	۵	Individual 🗖 Co	rporati	ion or other private gro	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				4b. Psyment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (feelose an extra copy of this form).					
5. Change in Entity Stat	tus (from status indicate s SMALL ENTITY statu			_				TITY status. Sec 37 Ci	
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if req records of the United Sta	uired) tes Pat	will not be accepted ent and Trademark	d from anyone other the Office.	nan ti	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date					
Typed or printed name				Registration No.					
This collection of inform an application. Confident submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu	FR 1.3 U.S.C USPT	11. The information 122 and 37 CFR O. Time will vary	on is required to obtain 1.14. This collection i depending upon the i e Chief Information O	or r s est indiv	etain a benefit by the imated to take 12 r idual case. Any co r. U.S. Patent and	he pub ninute: mment Trader	lic which is to file (and s to complete, including ts on the amount of tir mark Office, U.S. Dens	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O.

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75	7590 08/25/2008		EXAMINER		
Robert E Krebs		GATES, ERIC ANDREW			
Thelen Reid & Price	est		ART UNIT	PAPER NUMBER	
P O Box 640640 San Jose CA 9516	4-0640	3726			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 470 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 470 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/528,481	TAN, XINGDA	
Examiner	Art Unit	
Fric A. Gates	3726	

-- The MAILING DATE of this communication appears on the cover sheat with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1.

 ☐ This communication is responsive to Applicant's amendment filed 30 May 2008.
- The allowed claim(s) is/are 1-9.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. \(\subseteq \text{ Certified copies of the priority documents have been received.} \)
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other _____.

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DETAILED ACTION

1. This office action is in response to Applicant's amendment filed 30 May 2008.

Drawings

2. The drawings were received on 30 May 2008. These drawings are acceptable.

Allowable Subject Matter

- Claims 1-9 are allowed. Claim 1 is the sole independent claim.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to anticipate or make obvious a power drill chuck having (1) "the rear sleeve is provided with piecewise annular holes on its rear end surface and a plurality of keys on its inner surface", (2) "a positioning sleeve is fixedly connected to the rear portion of the drill body", and (3) "a plurality of elastic impact members are mounted between the nut sleeve and the rear sleeve" and "being provided with a plurality of elastic deformation portions and a plurality of projecting keys", solely or in combination, with a power drill chuck having a drill body, a nut, jaws, a front sleeve, a rear sleeve, a nut sleeve and a rolling body.

Yang et al. (US 6,848,691) is the closest art of record.

Yang et al. '691 shows in Figures 1-1B,2-2B and 4-8 a power drill chuck comprising a drill body (1), a nut (2), jaws (3), a front sleeve (5), a rear sleeve (4), a nut

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sleeve (7) and a rolling body (9), wherein the three jaws are mounted respectively in three inclined holes which are trisection of the drill body. Yang et al. '691 further shows a nut thread (2-1) constitutes a thread drive together with a thread (33) of the jaws, the front sleeve is fixedly connected to the drill body, the nut sleeve is fixedly connected to the nut and extends backwards with a rear end of which a plurality of projecting keys (7-1,7-2,7-4) are provided. Yang et al. '691 further shows the rear sleeve being mounted around the rear portion of the nut sleeve and may rotate relative to the nut sleeve and the drill body.

Yang et al. '691 lacks a power drill chuck having (1) "the rear sleeve is provided with piecewise annular holes on its rear end surface and a plurality of keys on its inner surface", (2) "a positioning sleeve is fixedly connected to the rear portion of the drill body", and (3) "a plurality of elastic impact members are mounted between the nut sleeve and the rear sleeve" and "being provided with a plurality of elastic deformation portions and a plurality of projecting keys".

Although it is well known to have a power drill chuck with "a rear sleeve", "a positioning sleeve" and "a plurality of elastic impact members", there is no teaching in the prior art of record that would, reasonably and absent impermissible hindsight, motivate one having ordinary skill in the art to so modify the teachings Yang et al. '691, noting that in Yang et al. '691, the rear sleeve is a solid piece without piecewise annular holes on its rear end and without a plurality of keys on its inner surface, no positioning sleeve is present at all, and no plurality of elastic members are present at all, let alone mounted between the nut sleeve and the rear sleeve. Thus, for at least the foregoing

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reasons, the prior art of record neither anticipates nor rendered obvious the present invention as set forth in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric A. Gates whose telephone number is (571)272-5498. The examiner can normally be reached on Mon-Thurs 8:45 - 6:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. A. G./ Examiner, Art Unit 3726 19 August 2008

/David P. Bryant/ Supervisory Patent Examiner, Art Unit 3726